

What is claimed is:

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1. A method for reorganizing data, comprising:
reading each record of a source file;
writing each record to a destination file;
creating a log file containing selected log records, each log record associated with a
change to be made to the destination file;
reading each log record of the log file;
processing each record of the log file to effect the associated change to the destination
file; and
replacing the source file with the destination file.

2. A method according to claim 1 wherein the source file is an index file.

3. A method according to claim 1 wherein the source file is a data file.

4. A method according to claim 1 wherein the step of creating a log file is performed in
accordance with instructions of a DBMS log routine.

5. A method according to claim 4 wherein the log file contains a subset of all records
processed by the DBMS log routine.

1 8. A method for logging changes by a database management system, comprising:
2 identifying a change to be logged;
3 creating a log record based on the change;
4 determining whether the change affects a reorganization process;
5 storing the log record in a first log file recording selected changes if the change affects
6 the reorganization process; and
7 storing the log record in a second log file recording all changes.

1 9. A method according to claim 8 wherein the first log file resides in virtual storage.

1 10. A method according to claim 8 wherein the first log file resides in dataspace.

1 11. A method according to claim 8 wherein the first log file resides in hiperspace.

1 12. A method according to claim 8 wherein the first log file resides in DASD.

1 13. An apparatus for reorganizing data, comprising:
2 means for reading each record of a source file;
3 means for writing each record to a destination file;
4 means for creating a log file containing selected log records, each log record associated
5 with a change to be made to the destination file;
6 means for reading each log record of the log file;
7 means for processing each record of the log file to effect the associated change to the
8 destination file; and
9 means for replacing the source file with the destination file.

1 14. An apparatus according to claim 13 wherein the source file is an index file.

1 15. An apparatus according to claim 13 wherein the source file is a data file.

1 16. An apparatus according to claim 13 wherein the log file is created in accordance with
2 instructions of a DBMS log routine.

1 17. An apparatus according to claim 16 wherein the log file contains a subset of all records
2 processed by the DBMS log routine.

1 18. An apparatus according to claim 16 wherein the log file records are selected based on a

2 program call established by a reorganization utility.

1 19. An apparatus according to claim 18 wherein the program call is removed prior to

2 termination of the reorganization utility.

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1 20. An apparatus for reorganizing data, comprising:

2 a processor;

3 a memory connected to said processor storing a program to control the operation of said
4 processor;

5 the processor operative with the program in the memory to:

6 read each record of a source file;

7 write each record to a destination file;

8 create a log file containing selected log records, each log record associated with a
9 change to be made to the destination file;

10 read each log record of the log file;

11 process each record of the log file to effect the associated change to the
12 destination file; and

13 replace the source file with the destination file.

1 21. An apparatus according to claim 20 wherein the source file is an index file.

1 22. An apparatus according to claim 20 wherein the source file is an data file.

1 23. An apparatus according to claim 20 wherein the processor is further operative with the
2 program in the memory to create the log file in accordance with instructions of a DBMS log
3 routine.

1 24. An apparatus according to claim 23 wherein the log file contains a subset of all records
2 processed by the DBMS log routine.

1 25. An apparatus according to claim 20 wherein the processor is further operative with the
2 program in the memory to select the log file records based on a program call established by a
3 reorganization utility.

1 26. An apparatus according to claim 23 wherein the processor is further operative with the
2 program in the memory to remove the program call prior to termination of the reorganization
3 utility.

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1 27. A computer-readable storage medium encoded with processing instructions for
2 implementing a method for reorganizing data, the processing instructions for directing a
3 computer to perform the steps of:
4 reading each record of a source file;
5 writing each record to a destination file;
6 creating a log file containing selected log records, each log record associated with a
7 change to be made to the destination file;
8 reading each log record of the log file;
9 processing each record of the log file to effect the associated change to the destination
10 file; and
11 replacing the source file with the destination file.

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